

OLA Data Analyst Project

SQL Questions:

- 1. Retrieve all successful bookings.
- 2. Find the average ride distance for each vehicle type.
- 3. Get the total number of cancelled rides by customers.
- 4. List the top 5 customers who booked the highest number of rides.
- 5. Get the number of rides cancelled by drivers due to personal and car-related issues.
- 6. Find the maximum and minimum driver ratings for Prime Sedan bookings.
- 7. Retrieve all rides where payment was made using UPI.
- 8. Find the average customer rating per vehicle type.
- 9. Calculate the total booking value of rides completed successfully.
- 10. List all incomplete rides along with the reason.

Power BI Questions:

- 1. Ride Volume Over Time
- 2. Booking Status Breakdown
- 3. Top 5 Vehicle Types by Ride Distance
- 4. Average Customer Ratings by Vehicle Type
- 5. Cancelled Rides Reasons
- 6. Revenue by Payment Method
- 7. Top 5 Customers by Total Booking Value
- 8. Ride Distance Distribution Per Day
- 9. Driver Ratings Distribution
- 10. Customer vs. Driver Ratings

Data Columns

- 1. Date
- 2. Time
- 3. Booking ID
- 4. Booking Status
- 5. Customer ID

- 6. Vehicle Type
- 7. Pickup Location
- 8. Drop_Location
- 9. V_TAT
- 10. C TAT
- 11. Cancelled Rides by Customer
- 12. Cancelled_Rides_by_Driver
- 13. Incomplete Rides
- 14. Incomplete Rides Reason
- 15. Booking Value
- 16. Payment Method
- 17. Ride Distance
- 18. Driver Ratings
- 19. Customer_Rating

SQL ANSWER

1. Retrieve all successful bookings:

SELECT * FROM bookings WHERE Booking Status = 'Success';

2. Find the average ride distance for each vehicle type:

SELECT Vehicle_Type, AVG(Ride_Distance) as avg_distance FROM bookings GROUP BY Vehicle_Type;

3. Get the total number of cancelled rides by customers:

SELECT COUNT(*) FROM bookings WHERE Booking Status = 'cancelled by Customer';

4. List the top 5 customers who booked the highest number of rides:

SELECT Customer_ID, COUNT(Booking_ID) as total_rides FROM bookings GROUP BY Customer_ID ORDER BY total_rides DESC LIMIT 5;

5. Get the number of rides cancelled by drivers due to personal and car-related issues:

SELECT COUNT(*) FROM bookings WHERE cancelled_Rides_by_Driver = 'Personal & Car related issue';

6. Find the maximum and minimum driver ratings for Prime Sedan bookings:

SELECT MAX(Driver_Ratings) as max_rating, MIN(Driver_Ratings) as min_rating FROM bookings WHERE Vehicle_Type = 'Prime Sedan';

7. Retrieve all rides where payment was made using UPI:

SELECT * FROM bookings WHERE Payment Method = 'UPI';

8. Find the average customer rating per vehicle type:

SELECT Vehicle_Type, AVG(Customer_Rating) as avg_customer_rating FROM bookings GROUP BY Vehicle_Type;

9. Calculate the total booking value of rides completed successfully:

SELECT SUM(Booking_Value) as total_successful_value FROM bookings WHERE Booking_Status = 'Success';

10. List all incomplete rides along with the reason:

SELECT Booking_ID, Incomplete_Rides_Reason FROM bookings WHERE Incomplete Rides = 'Yes';

Power BI Answers

Segregation of the Views:

- 1. Overall -
- Ride Volume Over Time
- Booking Status Breakdown
- 2. Vehicle Type –
- Top 5 Vehicle Types by Ride Distance
- 3. Revenue –
- Revenue by Payment Method
- Top 5 Customers by Total Booking Value
- Ride Distance Distribution Per Day
- 4. Cancellation -
- Cancelled Rides Reasons (Customer)
 Cancelled Rides Reasons (Drivers)
- 5. Ratings -
- Driver Ratings
- Customer Ratings

Answers:

- 1. **Ride Volume Over Time:** A time-series chart showing the number of rides per day/week.
- 2. **Booking Status Breakdown:** A pie or doughnut chart displaying the proportion of different booking statuses (success, cancelled by the customer, cancelled by the driver,

etc.).

- 3. **Top 5 Vehicle Types by Ride Distance:** A bar chart ranking vehicle types based on the total distance covered.
- 4. **Average Customer Ratings by Vehicle Type:** A column chart showing the average customer ratings for different vehicle types.
- 5. **Cancelled Rides Reasons:** A bar chart that highlights the common reasons for ride cancellations by customers and drivers.
- 6. **Revenue by Payment Method:** A stacked bar chart displaying total revenue based on payment methods (Cash, UPI, Credit Card, etc.).
- 7. **Top 5 Customers by Total Booking Value:** A leaderboard visual listing customers who have spent the most on bookings.
- 8. **Ride Distance Distribution Per Day:** A histogram or scatter plot showing the distribution of ride distances for different Dates.
- 9. **Driver Rating Distribution:** A box plot visualizing the spread of driver ratings for different vehicle types.
- 10. **Customer vs. Driver Ratings:** A scatter plot comparing customer and driver ratings for each completed ride, analyzing correlations.

SQL Questions & Answers

Create Database OLA; Use OLA;

#1. Retrieve all successful bookings:

CREATE VIEW Successful_Bookings AS SELECT * FROM bookings WHERE Booking Status = 'Success';

#2. Find the average ride distance for each vehicle type:

CREATE VIEW ride_distance_for_each_vehicle AS SELECT Vehicle_Type, AVG(Ride_Distance) AS avg_distance FROM bookings GROUP BY Vehicle Type;

#3. Get the total number of cancelled rides by customers:

CREATE VIEW cancelled_rides_by_customers AS SELECT COUNT(*) FROM bookings WHERE Booking Status = 'cancelled by Customer';

#4. List the top 5 customers who booked the highest number of rides:

CREATE VIEW Top_5_Customers AS

SELECT Customer_ID, COUNT(Booking_ID) AS total_rides

FROM bookings

GROUP BY Customer_ID

ORDER BY total_rides DESC LIMIT 5;

#5. Get the number of rides cancelled by drivers due to personal and car-related issues:

CREATE VIEW Rides_cancelled_by_Drivers_P_C_Issues AS SELECT COUNT(*) FROM bookings WHERE cancelled_Rides_by_Driver = 'Personal & Car related issue';

#6. Find the maximum and minimum driver ratings for Prime Sedan bookings:

CREATE VIEW Max_Min_Driver_Rating AS
SELECT MAX(Driver_Ratings) AS max_rating,
MIN(Driver_Ratings) AS min_rating
FROM bookings WHERE Vehicle Type = 'UberXL';

#7. Retrieve all rides where payment was made using UPI:

CREATE VIEW UPI_Payment AS SELECT * FROM bookings WHERE Payment Method = 'UPI';

#8. Find the average customer rating per vehicle type:

CREATE VIEW AVG_Cust_Rating AS
SELECT Vehicle_Type, AVG(Customer_Rating) AS avg_customer_rating
FROM bookings
GROUP BY Vehicle Type;

#9. Calculate the total booking value of rides completed successfully:

CREATE VIEW total_successful_ride_value AS SELECT SUM(Booking_Value) AS total_successful_ride_value FROM bookings WHERE Booking Status = 'Success';

#10. List all incomplete rides along with the reason:

CREATE VIEW Incomplete_Rides_Reason AS SELECT Booking_ID, Incomplete_Rides Reason

FROM bookings WHERE Incomplete Rides = 'Yes'; **Retrieve All Answers** #1. Retrieve all successful bookings: SELECT * FROM Successful Bookings; #2. Find the average ride distance for each vehicle type: SELECT * FROM ride_distance_for_each_vehicle; #3. Get the total number of cancelled rides by customers: SELECT * FROM cancelled_rides_by_customers; #4. List the top 5 customers who booked the highest number of rides: SELECT * FROM Top 5 Customers; #5. Get the number of rides cancelled by drivers due to personal and car-related issues: SELECT * FROM Rides_cancelled_by_Drivers_P_C_Issues; #6. Find the maximum and minimum driver ratings for Prime Sedan bookings: SELECT * FROM Max Min Driver Rating; #7. Retrieve all rides where payment was made using UPI: SELECT * FROM UPI Payment; #8. Find the average customer rating per vehicle type: SELECT * FROM AVG Cust Rating;

#9. Calculate the total booking value of rides completed successfully:

SELECT * FROM total successful ride value;

#10. List all incomplete rides along with the reason:

SELECT * FROM Incomplete Rides Reason;

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